BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :- Estimate for the work of Remodeling of SWD and its allied works in Critical Low Lying Area (Flood Prone Area) at Bhadrappa Layout, Nagashettihalli, Sanjaya Nagara in Yelahanka Zone

Tender Notification: No:CE/SWD(S)/TEND/424/2010-11, Dated: 22/01/2011
BBMP/2012-13/OW/WORK_INDENT3648

Approved Schedule 'B'

Sl. No	Item Name	Item Code	Unit	Estimate Quantity	KONDULU SUBRAMANYA RAJU	
					Quoted Item Value (in Rs.)	Quoted Amount (in Rs.)
1	Clearing and gurbbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials from road boundary, labour charges complete as per specifications	1	sqm	2400	5.40	12,960.00
2	Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. "V. Marshy soil - A.Manual Means upto 3 m depth . MORTH Specification	2	cum	1200	341.00	409,200.00
3	Sinking 100mm dia Bore holes in soils by manual auguring conducting standard penetration test at relevant death collecting disturbed and undisturbed soil samples where ever required for conducting necessary laboratory tests and sub mission of report including recommending suitable type of foundation sinking upto 6 mts or Refusal (N>50) whichever is earlier	3	No.	1	5382.00	5,382.00
4	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complte. 1.50 mtrs depth below LWL	4	cum	175	263.5	46,112.50

For DFCC ENGINEERS & CONSTRUCTIONS

Partner

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5	Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres complete as per specification.iii) Dismantling Stone Masonry. B.Rubble Stone masonry in cement mortar	5	cum	180	218.0	39,240.00
6	Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. Mechanical Means (i) Depth upto 3 m. MORTH Specification No.Section 304 In Ordinary soil	6a	cum	1560.45	46.0	71,780.70
7	Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. Mechanical Means (i) Depth upto 3 m. MORTH Specification No.Section 304 in Ordinary rock	6b	cum	1248.36	49.0	61,169.64
8	Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. Mechanical Means (i) Depth upto 3 m. MORTH Specification No.Section 304 In Hard rock	6c	cum	312.09	512.0	159,790.08
9	Collecting, conveying, stacking and filling quarry (stone) grit (passing 6.3 mm size sieve and retained on 2.36mm) including watering and compacting in layers of 15 cms thick with all lead and lift and as directed by the Engineer incharge	7	cum	5.63	1354.0	7,623.02
10	Providing and Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead upto 50m and lift of 1.5m complete as per specifications	8	cum	426.15	1281.0	545,898.15
11	Plain cement concrete M 10 with OPC cement @ 220 kgs with crushed 40m and down size graded grantie metal coarse aggregates @ 0.84 cum and fine aggregates @ 0.56 cum in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications	9	cum	123.75	4693.0	580,758.75
12	Plain / Reinforced Cement concrete idesign mix M 25 with OPC cement @ 340 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregates @ 0.47 cum with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed-2008 in open foundation complete as per drawing and technical specification. Case-II : With Batching Plant, Transit Mixer and Concrete Pump	10	cum	194.76	5162.0	1,005,454.36

for DECCAN ENGINEERS & CONSTRUCTIONS

Partner

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	Design mix M 25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.7cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) upto 5m height	11	cum	128.63	5750.0	739,622.50
	Plain / Reinforced Cement concrete in open foundation with OPC cement design mix M35 @ 390 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68 cum and fine aggregates @ 0.45 cum with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed-2010complete as per drawing and technical specification. Case-II : With Batching Plant, Transit Mixer and Concrete Pump	12	cum	186	5508.0	1,024,488.00
	Design mix M 35 with OPC cement @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) upto 5m height	13	cum	160	6150.0	984,000.00
	Furnishing and Placing Reinforced / Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D.RCC/PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. Case-II : Using Batching plant, Transit mixer & concrete pump Height upto 5m	14	cum	158	6270.0	990,660.00
	Supplying, fitting and placing TMT bar reinforcement in sub-structure as per drawing and Technical Specifications complete as per specifications	15	MT	70.75	76470.0	5,410,252.50
	Supplying, fitting and placing TMT bar reinforcement in super-structure complete as per drawing and technical specifications complete as per specifications	16	MT	17.38	77300.0	1,343,474.00
	Providing 110mm dia PVC pipes 6 KSC) with porous plug in 1:4 with aggregate of size 10mm - 3mm including geotextile fabric cover in plain concrete / reinforced concrete including cost and conveyance of all materials, labour, lead and lift etc., complete and as directed by the Engineer in charge for box drain raft PVC pipe 0.75 mtr	17a	Nos	10	264.0	2,640.00
	Providing 110mm dia PVC pipes 6 KSC) with porous plug in 1:4 with aggregate of size 10mm - 3mm including geotextile fabric cover in plain concrete / reinforced concrete including cost and conveyance of all materials, labour, lead and lift etc., complete and as directed by the Engineer in chargefor walls PVC pipe 0.5 mtr	17b	Nos	500	205.0	102,500.00
	Providing and fixing in position 20mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10m to cater for a horizontal movement upto 20mm covered with sealant complete as per drawing & Technical specification complete as per specifications.	18	Mtr	60	192.0	11,520.00

DECCAN ENGINEERS & CONSTRUCTIONS

Partner

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22	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2 of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical specification complete as per specifications.	19	cum	504	745.0	375,480.00
23	Collecting, conveying and disposal of surplus / excavated earth to designated dumping site (15.00 kms) as directed by the Engineer in charge.	20	cum	960	121.5	116,640.00
24	Bed Protection Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. Mechanical Means (i) Depth upto 3 m.	21	cum	403.75	46.0	18,572.50
25	Providing and Filling in foundation with granite/trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead upto 50m and lift of 1.5m complete as per specifications	22	cum	223	1281.0	285,663.00
26	supplying and placing in position as per drawing, Precast RCC Ring-1200 mm dia 300mm depth and 75mm thick of M20 grade including cost of all materials and labour, transportation etc , complete and as directed by the Engineer in charge	23	No.	50	2294.0	114,700.00
27	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2 of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical specification complete as per specifications.	24	cum	113	745.0	84,185.00
28	Plain / Reinforced Cement concrete M 20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.46 cum with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed-2008 in open foundation complete as per drawing and technical specification. C. RCC Grade M-20. Case-I. Using Concrete Mixer	25	cum	154.5	5273.0	814,678.50
29	Supplying, fitting and placing TMT bar reinforcement in sub-structure as per drawing and Technical Specifications complete as per specifications	26	MT	6.87	76470.0	525,348.90
30	Providing fixing of steel gratings (750 x 750) including cost of all materials and labour with all lead and lift as per drawing and technical specification or as directed by the Engineer incharge	27	No.	2	12320.0	24,640.00

For DEOLAN ENGINEERS & CONSTRUCTIONS

Partner

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1	B Cost of Construction RCC Box Culvert C1 Across BP026 (BY03) Ch: Clearing and gurbbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials from road boundary, labour charges complete as per specifications.	28	sqm	54	5.5	297.00
2	Sinking 100mm dia Bore holes in soils by manual auguring conducting standard penetration test at relevant depth collecting disturbed and undisturbed soil samples where ever required for conducting necessary laboratory tests and sub mission of report including recommending suitable type of foundation sinking upto 6 mts or Refusal (N>50) whichever is earlier	29	No.	1	5383.0	5,383.00
3	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complte. 1.50 mtrs depth below LWL	30	cum	17 5	264.0	4,620.00
4	Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres complete as per specification.iii) Dismantling Stone Masonry B.Rubble Stone masonry in cement mortar	31	cum	18	217.0	3,906.00
5	Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres complete as per specification. i) Lime/Cement concrete. I.By Manual means : A. Lime/Cement Concrete, I.By Manual means B cement concrete Grade M-15 & M-20	32	cum	3	329.0	987.00
6	Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. Mechanical Means (i) Depth upto 3 m.In Ordinary soil	33a	cum	176.37	46.0	8,113.02
7	Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. Mechanical Means (i) Depth upto 3 m.In Ordinary rock	33b	cum	88.18	48.0	4,232.64
8	Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. B. Mechanical Means (i) Depth upto 3 m.In Hard rock	33c	cum	88.18	512.0	45,148.16

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39	Providing and Filling in foundation with granite/trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead upto 50m and lift of 1.5m complete as per specifications.	34	cum	30.2	1281.0	38,686.20
40	Plain cement concrete M 10 with OPC cement @ 220 kgs with crushed 40m and down size graded grantie metal coarse aggregates @ 0.84 cum and fine aggregates @ 0.56 cum in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications.	35	cum	8.63	4693.0	40,500.59
41	PCC M15 Grade leveling course below approach slab complete as per drawings and technical specifications complete as per specifications.	36	cum	8.19	4789.0	39,221.91
42	Collecting, conveying, stacking and filling quarry (stone) grit (passing 6.3 mm size sieve and retained on 2.36mm) including watering and compacting in layers of 15 cms thick with all lead and lift and as directed by the Engineer incharge	37	cum	2.4	1354.0	3,249.60
43	Plain / Reinforced Cement concrete M 20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.46 cum with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed-2008 in open foundation complete as per drawing and technical specification. C. RCC Grade M-20, Case-I. Using Concrete Mixer. MORTH Specification No.1500, 1700 & 2100	38	cum	5.52	5273.0	29,106.96
44	Plain / Reinforced Cement concrete in open foundation with OPC cement design mix M35 @ 390 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68 cum and fine aggregates @ 0.45 cum with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed-2010complete as per drawing and technical specification. Case-II : With Batching Plant, Transit Mixer and Concrete Pump	39	cum	20.61	5508.0	113,519.88
45	Design mix M 35 with OPC cement @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) upto 5m height	40	cum	17.56	6150.0	107,994.00
46	Furnishing and Placing Reinforced / Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D.RCC/PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. Case-II : Using Batching plant, Transit mixer & concrete pump Height upto 5m	41	cum	15.86	6270.0	99,442.20
47	Plain / Reinforced Cement concrete idesign mix M 25 with OPC cement @ 340 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregates @ 0.47 cum with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed-2008 in open foundation complete as per drawing and technical specification. Case-II : With Batching Plant, Transit Mixer and Concrete Pump	42	cum	12.6	5163.0	65,053.80

FOR PEC-N ENGINEERS & CONSTRUCTIONS

Partner

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48	Design mix M 25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.7cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) upto 5m height	43	cum	16.95	5750.0	97,462.50
49	Supplying, fitting and placing TMT bar reinforcement in sub-structure as per drawing and Technical Specifications complete as per specifications.	44	MT	7.43	76470.0	568,172.10
50	Supplying, fitting and placing TMT bar reinforcement in super-structure complete as per drawing and technical specifications complete as per specifications.	45	MT	1.91	77300.0	147,643.00
51	Providing 110mm dia PVC pipes 6 KSC) with porous plug in 1:4 with aggregate of size 10mm - 3mm including geotextile fabric cover in plain concrete / reinforced concrete including cost and conveyance of all materials, labour, lead and lift etc., complete and as directed by the Engineer in charge for wall 0.45 mtr pipe	46a	Rmt	38	194.0	7,372.00
52	pipeProviding 110mm dia PVC pipes 6 KSC) with porous plug in 1:4 with aggregate of size 10mm - 3mm including geotextile fabric cover in plain concrete / reinforced concrete including cost and conveyance of all materials, labour, lead and lift etc., complete and as directed by the Engineer in charge for base 0.75 mtr	46b	Rmt	6	264.0	1,584.00
53	Drainage Spouts complete as per drawings and technical specifications complete as per specifications.	47	No.	2	1362.0	2,724.00
54	Reinforced cement concrete M30 approach slab including reinforcement and form work complete as per drawings and technical specifications complete as per specifications	48	cum	15.75	8970.0	141,277.50
55	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2 of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical specification complete as per specifications.	49	cum	55.2	745.0	41,124.00
56	Providing and fixing in position 20mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10m to cater for a horizontal movement upto 20mm covered with sealant complete as per drawing & Technical specification complete as per specifications.	50	Rmt	12	192.0	2,304.00
57	Providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2 kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut back M.C.70 or any other bitumen mixed with diesel at 10kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. medium porosity MORTH / Chapter 5	51	sqm	79.5	83.5	6,638.25

SCAN ENGINEERS & CONSTRUCTIONS

Partner

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58	Providing and laying 25mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated finegranied hard stone chipping of 13.2 mm nominal size at the rate of 0.005 cum per 10 sqm and at an approximate spacing of 10cm center to center in both directions, pressed into surface when the temperature of surfaces is not less than 1000C, protuding 1mm to 4mm over mastic surface all complete as per clause 500.15 as per specifications.	52	sqm	79.5	526.0	41,817.00
59	Providing and applying tack coat on granular surface treated with primer at 3 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications	53	sqm	291.5	20.0	5,830.00
60	Providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects as per specifications. with NRMB 70 (LATEX OR RUBBER POWDER)	54	cum	3.18	9066.0	28,829.88
61	Providing 80 NB MS Pipe on crash barrier with plates, inserts, and anticorossive paint on primer coat, etc., complete as per drawing and Technical specifications and as directed by the Engineer in charge	55	Mtr	7.2	896.0	6,451.20
62	Painting two coats on New Concrete Surface:- Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications.	56	sqm	15.84	61.0	966.24
63	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials within a lead of 100 mtrs including cost of all labour charges complete as per specifications	57	sqm	150	49.0	7,350.00
64	Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stackign of old serviceable materials within a lead of 100 metres by manual means including cost of all labour charges complete as per specifications.	58	sqm	150	43.0	6,450.00

For BRUSH ENGINEERS & CONSTRUCTIONS

Partner

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Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications (which includes cost of gravel/murrum watering charges & compaction by vibratory roller)	59	cum	51	165.0	8,415.00
Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse agreegate, watering and compacting to the required density complete as per specification A by Manual means. Type A 13.2mm for grading II.	60	cum	23.7	1466.0	34,744.20
Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse agreegate, watering and compacting to the required density complete as per specification.A by Manual means. Type B 11.2mm for grading III.	61	cum	15.8	1658.0	26,196.40
Providing and laying bituminous macadam 50mm thick with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per Clauses 501.6 and 501.7 to achieve the desired compaction complete as per specification. 80 - 100 mm compacted thickness (grading I) with 3.1% bitumen	62	cum	7.5	6060.0	45,450.00
Tack Coat:- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom complete as per specifications using bitumen emulsion.	63	sqm	75	11.0	825.00
Providing, laying and rolling of close graded premix surfacing material of 20mm thickness composed of 13.2 mm to 0.09 mm (Type - b) aggregates using penetration grade bitumen to the required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying with Paver and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to required level and grade complete as per specifications.	64	sqm	150	142.0	21,300.00
Collecting, conveying and disposal of surplus / excavated earth to designated dumping site (15.00 kms) as directed by the Engineer in charge.	65	cum	141.09	121.0	17,071.89
Total					**17,791,894.22**

ENGINEERS & CONSTRUCTIONS

Partner
ractor

Executive Engineer
SWD, Yelahanka zone, BBMP